

Assignment -2
Internet of Things

Assignment Date	06 October 2022
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Maximum Marks	2 Marks

Question-1:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi. Note: you are allowed to use web search and complete the assignment.

Solution:

#code for Traffic lights

```
from gpiozero import Button, TrafficLights, Buzzer  
from time import sleep
```

```
buzzer = Buzzer(15)  
button = Button(21)  
lights = TrafficLights(25, 8, 7)
```

while True:

```
    button.wait_for_press()  
    buzzer.on()  
    light.green.on()  
    sleep(1)  
    lights.amber.on()  
    sleep(1)  
    lights.red.on()  
    sleep(1)  
    lights.off()  
    buzzer.off()
```

#code for LED

```
import RPi.GPIO as GPIO  
from time import sleep
```

```
GPIO.setmode(GPIO.BOARD)
GPIO.setup(11,GPIO.OUT)
while True:
    GPIO.output(11,True)
    time.sleep(2)
    GPIO.output(11,False)
    time.sleep(2)
```